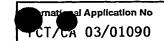
## INTERNATIONAL SEARCH REPORT





A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K39/395 G01N33/53 //C07K16/28,C07K16/42

A61P19/02

A61P11/06

A61P37/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\frac{7}{600}$  A61K  $\frac{1}{600}$ C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

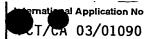
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, MEDLINE, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 23646 A (MEDAREX INC) 4 June 1998 (1998-06-04) page 21 -page 22	1–19
<b>A</b>	WO 91 05805 A (DARTMOUTH COLLEGE) 2 May 1991 (1991-05-02) the whole document	1-22
A	FERKOL T ET AL: "GENE TRANSFER INTO RESPIRATORY EPITHELIAL CELLS BY TARGETING THE POLYMERIC IMMUNOGLOBULIN RECEPTOR" JOURNAL OF CLINICAL INVESTIGATION, NEW YORK, NY, US, vol. 92, no. 5, November 1993 (1993-11), pages 2394-2400, XP001053217 ISSN: 0021-9738 the whole document	20-22

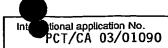
Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filing date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the International filing date but later than the priority date claimed	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>
Date of the actual completion of the international search  10 December 2003	Date of mailing of the international search report  22/12/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Wagner, R





		C1/CA U3/U1U9U
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WOLF H M ET AL: "Anti-inflammatory properties of human serum IgA: Induction of IL-1 receptor antagonist and Fc-alpha-R (CD89)-mediated down-regulation of tumour necrosis factor-alpha (TNF-alpha) and IL-6 in human monocytes"  CLINICAL AND EXPERIMENTAL IMMUNOLOGY, vol. 105, no. 3, 1996, pages 537-543, XP002263966 ISSN: 0009-9104 the whole document	1-22
A	MONTENEGRO V ET AL: "Elevation of serum IgA in spondyloarthropathies and IgA nephropathy and its pathogenic role" CURRENT OPINION IN RHEUMATOLOGY 1999 UNITED STATES, vol. 11, no. 4, 1999, pages 265-272, XP009022238 ISSN: 1040-8711 the whole document	1-22
P,A	FERKOL THOMAS ET AL: "Targeted delivery of antiprotease to the epithelial surface of human tracheal xenografts."  AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, vol. 167, no. 10, 15 May 2003 (2003-05-15), pages 1374-1379, XP009022239  ISSN: 1073-449X (ISSN print) the whole document	20-22
P,A	WO 02 064634 A (VAN DE WINKEL JAN ;VAN DIJK MARCUS A (NL); MEDAREX INC (US); HUDSO) 22 August 2002 (2002-08-22) the whole document	1-19

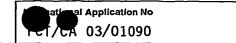




Box I Obs	ervations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Internation	nal Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claim beca	ns Nos.: use they relate to subject matter not required to be searched by this Authority, namely:
hun	hough claims 27-32 are directed to a diagnostic method practised on the han/animal body, the search has been carried out and based on the alleged fects of the compound/composition.
beca	ns Nos.: use they relate to parts of the International Application that do not comply with the prescribed requirements to such ttent that no meaningful International Search can be carried out, specifically:
3. Clair beca	ns Nos.: use they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Obs	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This Internation	onal Searching Authority found multiple inventions in this international application, as follows:
1. As a sear	Il required additional search fees were timely paid by the applicant, this international Search Report covers all chable claims.
2. As a of a	Il searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment , additional fee.
3. As c	only some of the required additional search fees were timely paid by the applicant, this International Search Report ers only those claims for which fees were paid, specifically claims Nos.:
4. No rest	required additional search fees were timely paid by the applicant. Consequently, this International Search Report Is ricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on I	Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

tion on patent family members



Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9823646	A	04-06-1998	US	6018031 A	25-01-2000
		•	AU	5456698 A	22-06-1998
			WO	9823646 A2	04-06-1998
WO 9105805	Α	02-05-1991	AT	181558 T	15-07-1999
			CA	2067244 A1	21-04-1991
			DE	69033181 D1	29-07-1999
			DE	69033181 T2	21-10-1999
			DK	496818 T3	22-11-1999
			EP	0496818 A1	05-08-1992
			ES	2132072 T3	16-08-1999
			JP	5504677 T	22-07-1993
			WO	9105805 A1	02-05-1991
			US	5610057 A	11-03-1997
			US	6018031 A	25-01-2000
WO 02064634	A	22-08-2002	CA	2437814 A1	22-08-2002
			WO	02064634 A2	22-08-2002
			US	2003082643 A1	01-05-2003